

## Damage Resistant Tight Tolerance SMA

The 905 Tight Tolerance SMA Damage Resistant Connector is a simple to use interconnect solution for markets where high power delivery is required.

Amphenol's Damage Resistant Connectors are designed for high power applications and utilize air gap ferrule technology. The air gap ferrule technology eliminates energy absorbing materials near the fiber end face such as epoxies, connector materials, and coatings. The connector ferrules can be made of stainless steel, beryllium copper, or other customer specified material.

The ferrule is used as a heat sink, pulling the heat quickly away from the fiber. Damage threshold on these types of connectors will vary based on launch conditions and operational wavelength.

Amphenol's accelerated design and development cycle allows for rapid response to the client's custom requirements. Amphenol Fiber Optic Products is dedicated to supporting each customer by providing exceptional quality and long-term reliability of the SMA connector.



### Features and Benefits

Stainless Steel Ferrules available in custom precision drilled optical fiber hole sizes for specialized applications

Custom stainless steel ferrule tip configurations available for high power laser delivery

Can withstand Autoclave and ETO Sterilization process

Strain relief boots and dust caps available with medical grade material

Compatible with RFID Integrated Technology

### Specifications

Insertion loss (Stainless Steel): 128um to 144um  $\leq 2.0\text{dB}$  typical

Tolerance for Stainless Steel DR Ferrule Holes  $\leq 128\text{um}$   $+5/-0\text{um}$

Tolerance for Stainless Steel DR TT Ferrule Holes:  $128 < D \leq 599\text{um}$ :  $+5/-0\text{um}$

Tolerance for Stainless Steel DR TT Ferrule Holes:  $600 < D \leq 1200\text{um}$ :  $+10/-0\text{um}$

### Applications

Medical Specialty

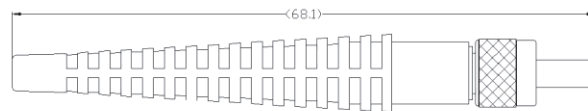
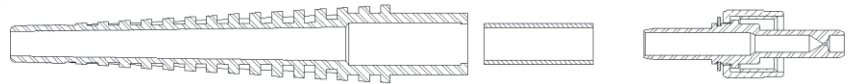
Data Communications

Industrial

Military

### Industry Compliance

RoHS compliant



## Ordering Information

Part Number	Description
905-189-50128-P	905 DR TIGHT TOLERANCE, 128μm, SMA CONNECTOR
905-189-50128HP	905 DR TIGHT TOLERANCE, 128μm, HEX, SMA CONNECTOR
905-189-50445-P	905 DR TIGHT TOLERANCE, 445μm, SMA CONNECTOR
905-189-50445HP	905 DR TIGHT TOLERANCE, 445μm, HEX, SMA CONNECTOR
905-189-50625-P	905 DR TIGHT TOLERANCE, 625μm, SMA CONNECTOR
905-189-50625HP	905 DR TIGHT TOLERANCE, 625μm, HEX, SMA CONNECTOR

\*Please call customer service for additional configurations